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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/10/2004

REED SMITH LLP Suite 1400 3110 Fairview Park Drive Falls Church, VA 22042

EXAMINER				
ROMAN	, ANGEL			
ART UNIT	PAPER NUMBER			

2812 DATE MAILED: 02/10/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,212	02/25/2002	Souichi Katagiri	NITT.0063	2863

TITLE OF INVENTION: METHOD AND APPARATUS FOR MANUFACTURING SEMICONDUCTOR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/10/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

appropriate. All further cor	below or directed otherwise	Patent, advance order	s and noti	fication 4	of maintenance fees v	vill be mailed to the current and/or (b) indicating a sepa	correspondence address as	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus			
REED SMITH LI Suite 1400 3110 Fairview Park Falls Church, VA 2	c Drive				Cer I hereby certify that the States Postal Service vaddressed to the Mai	e of mailing or transmission. tificate of Mailing or Transis Fee(s) Transmittal is bein with sufficient postage for fit l Stop ISSUE FEE address TO, on the date indicated bein to the second of the	g deposited with the United st class mail in an envelope above, or being facsimile	
Tans Church, VA 2	22072						(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE	FIR	ST NAME) INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/081,212	02/25/2002		Souichi	Katagiri		NITT.0063	2863	
TITLE OF INVENTION: M	IETHOD AND APPARATU	IS FOR MANUFACT	URING S	EMICON	NDUCTOR DEVICE			
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nonprovisional	NO	\$1330			\$300	\$1630	05/10/2004	
EXAM	IINER	ART UNIT		CL	ASS-SUBCLASS	1		
ROMAN	, ANGEL	2812	1		438-692000	J		
Address form PTO/SB/1: "Fee Address" indicati PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND	ence address (or Change of C 22) attached. on (or "Fee Address" Indicator more recent) attached. Use D RESIDENCE DATA TO B an assignee is identified bed to the USPTO or is being s	tion form e of a Customer E PRINTED ON THI low, no assignee data submitted under separa	names of agents OR firm (havi agent) and attorneys will be pri	up to : R, alternating as a di the nail or agents inted. I (print of a complete complete)	• •	ttorneys or 1	ate when an assignment has	
Please check the appropriate 4a. The following fee(s) are	``	•	ed on the p		individual 🔾	corporation or other private g	roup entity	
□ Issue Fee	VII.01030u.		•	` '	ount of the fee(s) is end	closed.		
Publication Fee		٥	Payment b	y credit	card. Form PTO-2038	is attached.		
☐ Advance Order - # of	Copies		The Direct			narge the required fee(s), or enclose an extra of		
Director for Patents is reque	sted to apply the Issue Fee a		•			ssue fee to the application ide		
(Authorized Signature)		(Date)						
NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or agreed of the United States Pa	ed) will not be accepent; or the assignee of the assignee of the assigner of the acceptance of the acc	oted from a or other p Office.	anyone arty in				
Patent and Trademark (22313-1450. DO NOT S SEND TO: Commissioner	tion is required by 37 CFR by the public which is to fiy the public which is to fiy test to complete, including gm to the USPTO. Time will the amount of time you this burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Virguettion Act of 1995, not the public which was a sent to the public which is to the public which was a sent to the public which is to the public which was a sent to the public which is to the public which which is to the public which is the public which is to the public which is to the public which which is the public which is the public which is the public which which is the public which w	of Commerce, Alex TED FORMS TO T ginia 22313-1450.	andria, V HIS ADD	rirginia RESS.				
collection of information u	duction Act of 1995, no pulless it displays a valid OM	B control number.						



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10/081,212	02/25/2002	Souichi Katagiri	NITT.0063	2863
7:	590 02/10/2004		EXAM	NER
REED SMITH L	LP		ROMAN,	ANGEL
Suite 1400 3110 Fairview Parl	k Drive		ART UNIT	PAPER NUMBER
Falls Church, VA 2	22042		2812	
			DATE MAIL ED: 02/10/200/	1

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 12 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 12 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)				
	10/081,212	KATAGIRI ET AL.				
Notice of Allowability	Examin r	Art Unit				
	Angel Roman	2812	MU			
The MAILING DATE of this communication app ars on the cover sh et with the correspondence addr ss All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to Amdt.						
2. X The allowed claim(s) is/are 1-11 and 17-19.	•					
3. \boxtimes The drawings filed on <u>25 February 2002</u> are accepted by the						
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:	der 35 U.S.C. § 119(a)-(d) or (f).					
 Certified copies of the priority documents have 						
2. Certified copies of the priority documents have						
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage applicat	ion from the			
International Bureau (PCT Rule 17.2(a)).	·	•				
 * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply contribution that the same that the s	omplying with the requi	rements noted EXTENDABLE.			
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF			
 8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawin he margin according to 37 CFR 1.121(ngs in the front (not the d).	back) of			
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)			•			
1☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Informal Pa	• • • • • • • • • • • • • • • • • • • •	·			
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		(PTO-413), Paper No				
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	^{5),} 7☐ Examiner's Amendm	ent/Comment	•			
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statement of Reasons for Allowance 9□ Other .					
			•			

Application/Control Number: 10/081,212

Art Unit: 2812

DETAILED ACTION

Page 2

Allowable Subject Matter

1. Claims 1-11 and 17-19 are allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art of record either singularly or in combination failed to anticipate or render obvious the limitations of supplying a first processing liquid including about 30% oxidizing agent for a first planarization step and supplying a second processing liquid including about 5% oxidizing agent wherein a plurality of planarizing steps are constituted in a single planarizing step as required by claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel Roman whose telephone number is (703) 306-0207. The examiner can normally be reached on Monday-Friday 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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For inquiries directed to the examiner or examiner's supervisor after 2 February 2004 call Angel Roman at (571) 272-1681 or John Niebling at (571) 272-1679.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

AR January 22, 2004 Supervisory Patent Examiner
Technology Center 2800